



Planning for Emergencies

MERSEYSIDE RESILIENCE FORUM

Merseyside Community Risk Register 2010

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What is the Community Risk Register?

The Community Risk Register (CRR) has been compiled jointly by Category 1 responder agencies (see appendix A) as identified in the Civil Contingencies Act 2004 (CCA 2004) with the assistance of Category 2 responder agencies (see appendix B), to identify any potential risks that may affect the communities of Merseyside, and will be subject to regular review.

It will provide the basis for the responder agencies to develop emergency plans. The published elements of the CRR are also intended to inform the public of the range of potential disruptive events that the responder agencies have considered when making their plans, and that they are ready to deal with these emergencies to provide resilience for the communities that they serve.

How has the Community Risk Register been compiled?

The register (below) contains the areas of potential risk to the population and infrastructure of Merseyside and the nature of that risk. The likelihood of an event occurring has been assessed using historical evidence and projected occurrence data relating to the risk occurring over a five year period at the magnitude reflected within the outcome description. The potential impact of such an emergency has been assessed with regard to health, social, economic and environmental effects in accordance with the *Emergency Preparedness* guidance. (More information can be found on the [UK resilience](#) website).

This work is a statutory requirement under the Civil Contingencies Act. Risk assessment is not a static process and is subject to constant review. The information contained on this website will, as a result, be regularly updated. The inclusion of these hazards, or the particular scenario (i.e. the outcome description) does not mean that the Local Resilience Forum (LRF) believes the risk will materialise, or that if it were to do so, it would be at that scale. The risk scenarios are considered to be reasonable worst case assumptions upon which our risk assessment is based. The likelihood and impact assessments have been used to develop a Risk Rating of Low, Medium, High or Very High by use of the Risk Rating Matrix (see Appendix C).

The attached risk assessments only cover non-malicious events (i.e. hazards) rather than threats (i.e. terrorist incidents). This does not mean that we are not considering threats within our risk assessment work, but given the sensitivity of the information supporting these risk assessments and the potential for use by adversaries, specific details will not be made available via this website. Threats scenarios that are being considered include, for example: Conventional attacks using explosives, Chemical/Biological/Radiological attacks, Electronic attacks – e.g. affecting utilities and communications.

Lead Responsibility

For the purpose of clarity, the term 'Lead Responsibility' refers to the organisation responsible for compiling the specific entry into the risk register. This does not necessarily denote responsibility for enacting risk treatment or for lead response in case of an incident .

DOCUMENT CONTROL

ACTIVE DATE	REVIEW DATE	AUTHOR
December 2007	September 2008	Merseyside Local Resilience Forum

AMENDMENT HISTORY

VERSION	DATE	REASONS FOR CHANGE	AMENDED BY
2005	November 2005	First Edition	J Ennis Merseyside Fire & Rescue Service
2006	November 2006	Annual Review	D Fitzsimmons Merseyside Fire & Rescue Service
2006	July 2007	Columns added to published version – Risk Priority, Review Date, Lead Responsibility	D Fitzsimmons Merseyside Fire & Rescue Service
Version 1.0.08	December 2007	Annual Review	D Fitzsimmons Merseyside Fire & Rescue Service
Version 1.0.09	December 2008	Annual Review	D Fitzsimmons Merseyside Fire & Rescue Service
Version 1.0.10	December 2009	Annual Review	D Fitzsimmons Merseyside Fire & Rescue Service

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RISK RATING

LOW

[Severe Weather Forest Fires](#)

[Structural Hazards Land Movement \(tremors/landslides\)](#)

[Transport Hazards Local Accident involving an aircraft crash offshore - light aircraft](#)

[Transport Hazards Damage to Motorway Infrastructure](#)

[Transport Hazard Maritime Accident or deliberate blockage of access to key port, estuary or maritime route.](#)

[Plant Health Plant Disease](#)

[Public Disorder Sport Stadium Disorder](#)

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MEDIUM

[Industrial Accident/Environmental Pollution, Fire or Explosion at gas storage site](#)

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[Structural Hazard Bridge Collapse](#)

[Transport Hazards Fire or Crash of Aircraft on Airport](#)

[Transport Hazards Fire or Crash of Aircraft off Airport](#)

[Transport Hazards Local Accident involving an aircraft crash offshore](#)

[Transport Hazard Major RTC Motorway/Trunk Road](#)

[Transport Hazard RTC involving Hazmats](#)

Transport Hazard Rail Crash - Surface Railway
Transport Hazard Rail Crash - Sub Surface Railway
Transport Hazard Rail Crash Involving Release of Hazardous Materials
Transport Hazard Fire in Underground Rail Tunnel or Station
Transport Hazard Failure of Infrastructure in Mersey Tunnel (Including collapse and flooding)
Transport Hazard Transports Incident involving Radiological or Nuclear Materials
Transport Hazard Local Accident Involving Transport of Fuel or Explosives
Human Health Outbreak of Communicable Diseases
Industrial Technical Failure Accidental Failure at Water Treatment Works
Industrial Technical Failure No Notice Failure of Public Telephony Provider
Industrial Technical Failure of Electricity Network
HIGH
Industrial Technical Failure Technical Failure of Upstream (Offshore) Oil/Gas Network
Industrial technical Failure Telecom Infrastructure Human Error
Industrial Technical Failure of Electricity Network
Fire, Flood or Collision Involving a Passenger Vessel on or close to UK Waters or on inland waterways, leading to the ships evacuation
Fire, Flood or Collision Involving a Passenger Vessel on or close to UK Waters leading to the ships evacuation or partial evacuation at sea
Release of significant quantities of hazardous materials as a result of major shipping accident
Rapid accidental sinking of a passenger vessel in or close to UK waters
Human Health Legionella Outbreak
Human Health Major Outbreak of Food Poisoning
Human Health Outbreak of Communicable Diseases
Outbreak of Zoonotic communicable disease
International Crisis Humanitarian Crisis Overseas
Industrial Accident/Environmental Pollution, Fire or Explosion at oil refinery, fuel storage/distribution site
Maritime Pollution
Localised Maritime Pollution
Industrial Accident Environmental Pollution Toxic or Hazardous Materials Washed Ashore
Industrial Accident/Environmental Pollution, Localised Fire or Explosion at a fuel distribution site or tank storage of flammable and/or toxic liquids
Industrial Accident/Environmental Pollution, Fire or Release of toxic or hazardous materials (Non COMAH Site)
Industrial Accident/Environmental Pollution Major Contamination Incident with Widespread Implications for Food Chain
Severe Weather Major Flooding of Populated Area - Major Localised Fluvial Flooding

<u>Severe Weather Major Flooding of Populated Area - Major Localised Tidal Flooding</u>
<u>Severe Weather Heatwave</u>
<u>Severe Weather Cold Snap</u>
<u>Structural Hazard Fire in Occupied Place of Entertainment/Sports Stadium</u>
<u>Structural Hazard Structural collapse of dam or reservoir</u>
<u>Transport Hazards RTC involving release of Hazardous Materials</u>
<u>Transport Hazards Serious RTC in Mersey Tunnel</u>
<u>Transport Hazards Release of Hazardous Materials in Mersey Tunnel</u>
VERY HIGH
<u>Industrial Accident/Environmental Pollution, Localised Fire or Explosion at a fuel distribution site or tank storage of flammable and/or toxic liquids</u>
<u>Industrial Accident/Environmental Pollution, Fire or Release of toxic or hazardous materials (Non COMAH Site)</u>
<u>Industrial Accident/Environmental Pollution Major Pollution of Controlled Waters</u>
<u>Transport Hazard Major Fire in Mersey Tunnel</u>
<u>Severe Weather Major Flooding of Populated Area - Major Local Fluvial Flooding</u>
<u>Severe Weather Major Flooding of Populated Area - Major local coastal / tidal flooding</u>
<u>Human Health Outbreak of Communicable Disease - Pandemic eg SARS or Influenza</u>

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA1	Industrial Accident / Environmental Pollution Fire or Explosion at gas storage site	Major Incident with off site effects up to 3km around site with up to 10 fatalities up to 100 casualties	Rare (2)	Moderate (3)	MEDIUM	Multi agency plans, site specific plans, Liaison with sites, Emergency Rest Centre Plans	Merseyside Response to Chemical Incidents Plan (MERCHEM), Merseyside Emergency Response Manual. MFRS SOPs and Individual site-specific plans. NWS EP001 Major Incident Plan. Local Authority Emergency Rest Centre Plans. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 12 – National Grid UK Emergency Procedures.	2	Fire and Rescue Service	March 2012
		Up to 3 Km around site up to 500 fatalities and up to 1500 casualties	Negligible (1)	Significant (4)	MEDIUM					
IA2	Industrial Accident / Environmental Pollution Fire or Explosion at oil refinery, fuel storage/ distribution site	Up to 10 fatalities and up to 100 casualties requiring hospitalisation	Rare (2)	Moderate (3)	MEDIUM	Multi agency plans, site specific plans, Liaison with sites	Merseyside Response to Chemical Incidents Plan (MERCHEM), Merseyside Emergency Response Manual. MFRS SOP Mass Decontamination and Individual site-specific plans. NWS EP001 Major Incident Plan. Local Authority Emergency Rest Centre Plans. Local Authority Merseyside Shoreline Pollution Strategy. Wirral MBC Shoreline Pollution Plan. Dee Estuary Oil Spill Plan. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies. 28 – Chemical Sites not Cloudburst, 29 – Chemical Sites Cloudburst. Decontamination Chemical Sites – Not 'Cloudburst'. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units.	2	Fire and Rescue Service	Sept 2010
		Up to 3km around site, up to 150 fatalities, up to 2000 casualties	Rare (2)	Catastrophic (5)	HIGH					

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA3	Industrial Accident / Environmental Pollution Fire or release of fuel or ethylene from onshore pipeline	Up to 1 km around the site causing up to 100 fatalities and up to 500 casualties	Negligible (1)	Moderate (3)	MEDIUM	Multi agency plans, decontamination plan / systems, site specific plans, Liaison with sites, Emergency Rest Centre Plans	Merseyside Major Accident Hazard Pipeline Plans, Merseyside Emergency Response Manual. Local Authority Emergency Rest Centre Plans. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 15 – Major Accident Pipeline Plans. NWAS EP001 Major Incident Plan. MFRS SOP Major Incidents.	1	Fire and Rescue Service	Sept 2011
IA5	Maritime Pollution (H15)	Spillage of 100,000 tonnes of crude oil into the sea, polluting up to 200km of coastline.	Negligible (1)	Catastrophic (5)	HIGH	Maritime and Coastguard Agency and other authorities' contingency planning, including the National Contingency Plan for Marine Pollution from Ships and Offshore Installations backing up local and regional response and support plans. Maritime and Coastguard Agency's Major Incident Plans, in conjunction with those of other Category 1 Responders and any Category 2 Response plans. Maritime and Coastguard Agency and Fire and Rescue Services' Maritime Incident Response Group	International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters. International Ship and Port Security Code; security service involvement	2	Maritime Coastguard Agency / DfT	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA7	Industrial Accident / Environmental Pollution Fire or explosion at natural gas pipeline	Local to site causing up to 200 fatalities and up to 200 casualties	Negligible (1)	Significant (4)	MEDIUM	Multi agency plans, decontamination plan / systems sites, Emergency Rest Centre Plans	Merseyside Major Accident Hazard Pipeline Plans. Merseyside Emergency Response Manual. Local Authority Emergency Rest Centre Plans. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 15 – Major Accident Pipeline Plans. Highways Agency – VMS and portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units. NWAS EP001 Major Incident Plan. MFRS SOP Major Incidents.	1	Fire and Rescue Service	Sept 2011
IA8	Localised Maritime Pollution (HL32)	Release of 10,000 tonnes of oil into the sea, polluting up to 100km of coastline.	Negligible (1)	Significant (4)	HIGH	Maritime and Coastguard Agency and other authorities' contingency planning, including the National Contingency Plan for Marine Pollution from Ships and Offshore Installations backing up local and regional response and support plans. Maritime and Coastguard Agency's Major Incident Plans, in conjunction with those of other Category 1 Responders and any Category 2 Response Plans. Maritime and Coastguard Agency and Fire and Rescue Services' Maritime Incident Response Group	International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters. International Ship and Port Security Code; security service involvement	2	Maritime Coastguard Agency / DfT	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA9	Industrial Accident / Environmental Pollution Toxic or hazardous materials washed ashore	Significant environmental impact and potential for harm to human health	Unlikely (3)	Moderate (3)	HIGH	Plans in place. Staff trained. Clean up via contractors	Memorandum of Understanding between the Environment Agency, Local Authority and Maritime and Coastguard Agency to react and remediate in case of toxic or hazardous materials washed ashore. Environment Agency staff trained on Base Controllers (Silver) and Liaison Officers. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 37 – Pollution Control Schemes.	3	Environment Agency	Sept 2011
IA10	Industrial Accident / Environmental Pollution Localised fire or explosion at a fuel distribution site or tank storage of flammable and/or toxic liquids	Up to 1km around the site causing up to 15 fatalities and 200 casualties	Unlikely (3)	Moderate (3)	HIGH	Multi agency plans, site specific plans, Liaison with sites Regular exercising of plans, Decontamination Plans, means for informing local communities in the case of off site effects	Merseyside Response to Chemical Incidents Plan (MERCHEM). Merseyside Emergency Response Manual. MFRS COMAH Off-Site Plans for Top Tier Sites and exercise program to test plans every 3 years. MFRS SOPs Mass Decontamination and Hazardous Materials. Police Force Plan no. 28 – Chemical Sites Not ‘Cloudburst’. 29 – Chemical Sites ‘Cloudburst’. NWS EP001 Major Incident Plan. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units. United Utilities – Business Continuity Plans.	4	Fire and Rescue Service	March 2010
		Up to 3km around site with up to 50 fatalities and 2000 casualties	Unlikely (3)	Significant (4)	VERY HIGH					
		Up to 10 km around site causing up to 2000 fatalities and 10000 casualties	Rare (2)	Catastrophic (5)	HIGH					

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA11	Industrial Accident / Environmental Pollution Fire or release of toxic or hazardous materials (non COMAH site)	Up to 1km around site causing up to 20 casualties, some of a serious nature. Explosions would cause primarily crush/cuts and bruise-type injuries as well as burns.	Unlikely (3)	Moderate (3)	HIGH	Multi agency plans, site specific plans, Liaison with sites. Regular exercising of plans, Decontamination Plans, means for informing local communities in the case of off site effects	Merseyside Response to Chemical Incidents Plan (MERCHEM). Merseyside Emergency Response Manual. MFRS SOP Hazardous Materials, Mass Decontamination and Individual site-specific plans. Police Force Plan no. 28 – Chemical Sites 'Cloudburst'. 29 – Chemical Sites 'Cloudburst'. NWS EP001 Major Incident Plan. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units. United Utilities – Business Continuity Plans.	4	Fire and Rescue Service	March 2010
		Up to 3km around site with up to 50 fatalities and 2000 casualties	Unlikely (3)	Significant (4)	VERY HIGH					
		Up to 10 km around site causing up to 2000 fatalities and 10000 casualties	Rare (2)	Catastrophic (5)	HIGH					
IA12	Industrial Accident / Environmental Pollution Release of radioactive materials from research site or hospital	Up to 5 fatalities and up to 100 contaminated people requiring medical monitoring. Many worried people may present at hospitals. Radiation may be spread over a range of several kilometres but most concentration at the point of actual release.	Negligible (1)	Moderate (3)	MEDIUM	Surveillance systems, Multi Agency Plans, Reassurance monitoring	NAIR Major Incident Plan. Merseyside Emergency Response Manual. MFRS SOPs Major Incidents, Mass Decontamination and Individual site-specific plans. NWS EP001 Major Incident Plan. HPA Major Incident Plan. Lead PCT Activation Plan. HPA Radiation Plan.	1	Liverpool PCT, HPA	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA13	Unexploded ordnance	Unexploded ordnance detonates resulting in a fatality, injury and / or damage to property.	Negligible (1)	Moderate (3)	MEDIUM	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan 01 - Force Mobilization Plans, 06 – Casualty Bureau, 03 – Procedures for Emergencies, 02 – ACPO Emergency Procedures Manual. 40 – Unexploded Ordnance handed in or reported to the Police, 07 – Emergency Equipment & Trailer Information, 20 – Bomb Threat Assessment & Suspect Packages. MFRS SOPs USAR and Explosives. Nwas EP001 Major Incident Plan. HPA Major Incident Plan. Acute Hospitals Trust Major Incident Plans. Local Authority Major Emergency Plans. MCA plan for items below the high watermark. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units.	2	Merseyside Police	Sept 2010
IA14	Industrial Accident / Environmental Pollution Major pollution of controlled waters	Pollution incident impacting upon controlled waters (for example, could be caused by chemical spillage or release of untreated sewage) leading to persistent and/or extensive effect on water quality, major damage to aquatic ecosystems, closure of potable abstraction point(s), major impact on amenity (i.e. Tourism) value, serious impact on human health.	Probable (5)	Moderate (3)	VERY HIGH	Plans in place. Staff trained. Equipment/clean up via contractors.	24 hour response system in place. Memorandum of Understanding with Fire Brigades, Police, Local Authorities, Highways Agency, Health Protection Agency and Health Authority. Maritime and Coastguard Agency - Oil Spill Response Plan. EA - National specialist equipment database in place (Aerators & boats) Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units.	4	Environment Agency	March 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
IA15	Industrial Accident / Environmental Pollution Biological substance release from control measure failure	Outbreak of communicable disease, or chemical / radiological release, Education/health sector Pharmaceutical production. Up to 10 fatalities and serious injuries or offsite impact requiring up to 1,000 casualties	Rare (2)	Moderate (3)	MEDIUM	Surveillance systems, Multi Agency Plans for decontamination and treatment.	Generic biological / chemical release plans Merseyside Emergency Response Manual. MFRS SOP Mass Decontamination and Individual site-specific plans, NWAS EP001 Major Incident Plan. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 23 – Merseyside Response to a CBRN Incident (multi agency). HPA Major Incident Plan.	1	Liverpool PCT, HPA	Sept 2011
IA16	Industrial Accident / Environmental Pollution Major contamination incident with widespread implications for the food chain	Food production / marketing implications depending on scale and area affected e.g. major shellfisheries, dairy / livestock production areas. Potential direct animal and consumer health effects including possible fatalities and casualties. Consumer confidence affected leading to lost markets or panic buying.	Possible (4)	Moderate (3)	HIGH	Regulation system for checking food chain. Public warning plans (FSA) (EA)	Regulation system for checking food chain. Public warning plans (FSA) (EA) HPA Major Incident Plan with Chemical Response	3	Liverpool PCT, HPA	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
SW1	Severe Weather Major flooding of populated area – Major Localised Fluvial Flooding	Sustained period of heavy rainfall over two weeks, perhaps with snow melt, steadily rising river levels over a region. Localised flooding > 100 and < 1,000 properties. Some impact on minor roads, some A roads / trunk roads impassable. Some main rail lines / minor rail lines and stations closed. Most waterways closed	Possible (4)	Moderate (3)	HIGH	Warning systems and plans in place and practised. Staff well trained. Lessons learned from events elsewhere e.g. High Volume pumps available	Environment Agency contingency plans for pumping station failure. Environment Agency Local Flood Warning Plan. Environment Agency Annual Flood Warning, Emergency Planning and Response meeting. Additional resources provided by agencies detailed in Merseyside Multi Agency Flood Plan. Local Authority Major Emergency Plans. EA staff trained on Base Controllers (Silver) and Liaison Officers. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 13 – Flood Warning Plan for Merseyside. Highways Agency – Contingency Plans, VMS Traffic Officer Service at Regional Control Centre & Incident Support Units. Scottish Power – Flood Plans	5	Environment Agency	Sept 2010
	Major Local Fluvial Flooding	Sustained period of heavy rainfall over two weeks, perhaps with snow melt, steadily rising river levels over a region. Localised flooding > 1000 and < 10,000 properties. Some impact on minor roads, some A roads / trunk roads impassable. Some main rail lines / minor rail lines and stations closed. Most waterways closed.	Unlikely (3)	Significant (4)	VERY HIGH	See above	See above	5	Environment Agency	Sept 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
SW1 Cont.	Severe Weather Major flooding of populated area cont. Major local coastal / tidal flooding	Sea surge, spring tides, gale force winds, heavy rainfall affecting more than one Region, some defences overtopped or failing at multiple locations. Flooding of more than 1000 and less than 10,000 properties. Multi-Agency response invoked, possible large scale evacuation required. Sudden failure of defences, tidal inundation would be rapid and wave impact would cause structural damage to properties. Impact on infrastructure includes disruption to traffic for 1-3 days, impact on access to agricultural land and impact to infrastructure.	Unlikely (3)	Significant (4)	VERY HIGH	See above	See above	5	Environment Agency	Sept 2010
	Localised coastal / tidal flooding	Sea surge, spring tides, gale force winds, heavy rainfall, some defences overtopped or failing at multiple locations. Flooding of more than 100 and less than 1,000 properties. Multi-Agency response invoked, possible large scale evacuation required. Impact on infrastructure includes disruption to traffic for 1-3 days, impact on access to agricultural land and impact to infrastructure e.g. sewage treatment.	Possible (4)	Moderate (3)	HIGH	See above	See above	5	Environment Agency	Sept 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
SW2	Severe Weather Heatwave	Death or incapacity, health service capacity. Daily max temp above 30°C. and minimum temps above 15°C over most of the area for at least 3 consecutive days	Unlikely (3)	Moderate (3)	HIGH	Meteorological warning systems. Public information systems	Dept of Health Heatwave Plan for England 2009. Meteorological warning systems. Public information systems. Merseyside PCTs / Hospitals / LAs specific Heatwave Plans. Lead PCT Activation Plan.	2	Liverpool PCT	Sept 2010
SW3	Severe Weather Cold snap	Death or incapacity, Health service capacity. Period of at least 7 consecutive days with daily mean temps below -3°C	Unlikely (3)	Moderate (3)	HIGH	Meteorological warning systems. Public information systems.	Meteorological warning systems. Public information systems. Highways Agency – Winter Service plan. PCT Escalation Policy. Lead PCT Activation Plan.	3	Liverpool PCT	Sept 2011
SW4	Severe Weather Drought	Serious effect on water supply and adverse impact on environment	Rare (2)	Moderate (3)	MEDIUM	Utility company action plans, local, regional and national contingency plans. Monitoring programme. EA drought action plans	UU drought contingency plan, including hosepipe bans etc. Environment Agency drought contingency plans. Monitoring of drought order sites and whole river network Regular liaison between United Utilities and EA Water Resources team. Regional computer modelling to predict pressure points in supply network Drought plans completed.	3	Environment Agency	Sept 2011
SW5	Severe Weather Heavy snow	Snow lying overmost of the country for at least 1 month. Most lowland areas experience some snow falls in excess of 10cm, some drifts in excess of 50cm, and a period of at least 7 consecutive days with daily mean temps below -3°C.	Possible (4)	Minor (2)	MEDIUM	Business continuity plans. Weather and flood warnings. LA procedures and plans, LA monitoring systems. Sufficient supplies of grit etc. Mutual aid systems, access to additional stocks of grit / assistance	Meteorological Office - Severe weather warnings, specific Highway Forecasts for Local Authorities. Out of hours availability. Highways Agency – Area 10 Severe Weather Plan, VMS Traffic Officer Service at Regional Control Centre & Incident Support Units, Emergency Network Diversion Routes.	2	Local Authorities	Sept 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
SW6	Severe Weather Forest Fires	Temporary short to medium term disruption to local area, number of minor casualties, limited effect on local environment <6 fatalities	Rare (2)	Minor (2)	LOW	Multi agency plans, site specific plans	Merseyside Emergency Response Manual. MFRS SOP Major Incidents. Sefton Coastal Plan, Local Authority Emergency Rest Centre Plans, Forest Ranger Service Plans	2	Fire and Rescue Service	Sept 2010
		Medium to long term disruption to surrounding area, long term environmental effect, >5 fatalities	Negligible (1)	Moderate (3)	MEDIUM					
SW7	Severe Weather Storms / gales	Storm force winds affecting most of the UK for at least 6 hours. Most inland, lowland areas experience mean speeds in excess of 55mph with gusts in excess of 85mph.	Unlikely (2)	Moderate (3)	MEDIUM	Met office weather warnings. Public warning procedures. Response plans. Business continuity plans. Major Emergency Response Plans. Local Authority Rest Centre provision.	Meteorological Office - Severe Weather Warnings issued to Responder Organisations. Meteorological Office to issue advance warnings via the media, to inform the public of possible affected areas. Major Emergency Response Plans. Local Authority Emergency Rest Centre Plans. Highways Agency – Contingency Plans, Regional Control Centre, VMS and portable VMS. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies.	3	Local Authorities	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
SH1	Structural hazards Land movement (tremors / landslides)	Roads and access routes impassable for a time. Emergency access into and out of large populated areas difficult or impossible; severe congestion over wide geographical area. potential for a number of persons to be trapped or missing either in landslide itself and/or in collapsed structures. Up to 5 fatalities depending on size and location of land movement	Negligible (1)	Minor (2)	LOW	LA advice, planning constraints. LA inspection plans. Systems for warning the public. Local Authority rest centre / survivor reception centre plans. MF&RS search and rescue capability	Landslips: Special advice from the Local Authority, established & issued Planning constraints on land abutting the cliff edge prevent building. Ground subsidence Incidents arising from Mineshafts and mineworking collapses are reported & responded to by British Coal, The Council has emergency arrangements in place to fence off the area at risk and evacuate. MFRS SOPs USAR and Trenches, UK SAR team. Ambulance HART.	1	Local Authorities	Sept 2011
SH2	Structural hazards Fire in occupied place of entertainment / sports stadium	< 5 fatalities with some casualties requiring hospitalisation	Unlikely (3)	Minor (2)	MEDIUM	Multi agency plans, site specific plans	Merseyside Emergency Response Manual. MFRS SOP Major Incidents and Individual site-specific plans. Local Authority Emergency Rest Centre Plans. NNAS EP001 – Major Incident Plan. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies.	2	Fire and Rescue Service	March 2011
		Major fire up to 100 fatalities with significant number of casualties.	Rare(2)	Significant (4)	HIGH					
SH3	Structural hazards Structural collapse of building	Potential for a number of persons to be trapped or missing. Localised loss of power and other essential services. Local access routes affected due to road closures				Multi agency plans, UKSAR team, search and rescue plans. Emergency Rest Centre Plans.	Merseyside Emergency Response Manual (Multi-Agency). MFRS SOPs Major Incidents and USAR. Local Authority Emergency Rest Centre Plans. NNAS EP001 Major Incident Plan. 031/3 Procedure for the deployment of PODs. Ambulance HART. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies.	1	Fire and Rescue Service	Sept 2011
		Less than 6 fatalities, small no. of casualties	Possible (4)	Minor (2)	MEDIUM					
		Up to 50 fatalities with significant no.s of casualties	Negligible (1)	Moderate (3)	MEDIUM					

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
SH4	Structural hazards Structural collapse of dam or reservoir	Complete destruction or serious damage to up to 200 downstream properties. Several thousand other properties could be flooded. Extent of downstream effect could reach 50-60 km depending on topography. Up to 2000 fatalities could occur but this would be mitigated by the extent of warning time given and evacuation taking place effectively	Rare (2)	Catastrophic (5)	HIGH	Multi Agency Flood Plan (MAFP). Planning for potential floods. Inspection programme.	Merseyside Multi Agency Flood Plan Environment Agency Annual Flood Warning, Emergency Planning and response meeting. Inspection programme. Highways Agency – Regional Control Centre, VMS and portable VMS. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies. United Utilities Dams – Process in place for warning emergency responders and the public.	3	Environment Agency	Sept 2011
SH5	Structural hazards Bridge collapse	Roads, access routes and transport infrastructure impassable for a considerable length of time. Severe congestion over a wide geographical area. Emergency access into and out of large populated areas severely restricted. Potential for a number of persons to be missing or trapped	Negligible (1)	Significant (4)	MEDIUM	Bridge Inspection and assessment. Structural surveys – highways / rail / waterways. Local Authority Rest Centre Plans. Search and rescue plans	Bridge inspection assessment and management procedures for highway bridges Network Rail operate their own structure examination and management procedures. Merseyside Local Authority Emergency Plans (Highways). MFRS SOP USAR. Highways Agency – Area 10 Contingency Plan, Traffic Officer Service at Regional Control Centre & Incident Support Units, VMS and portable VMS, Emergency Network Diversion Routes. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies.	1	Local Authorities	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH1	Transport hazards Fire or crash of aircraft on airport	Causing up to 50 fatalities and up to 250 casualties	Negligible (1)	Moderate (3)	MEDIUM	CAA inspection and audit for CAT rating. Airport Fire Service Plans Liaison with LA Fire Service. Multi Agency Plans. Regular Exercising of plans	Liverpool John Lennon Airport full emergency procedures. Major and short exercises to test plans. Emergency liaison committee meetings. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 41 – Liverpool John Lennon Airport, 42 – Aircraft Incidents Guidance to Police & Emergency Services, 44 – River Mersey Aircraft Rescue Plan. MFRS SOPs Air, Rescues on or Near Water and Water. MFRS Marine Rescue Team. Aircraft incidents and airport plans, Multi Agency Airport Security Plan. Two Level Response to Aircraft Incidents at LJLA. NNAS EP 020 Liverpool JL Airport Response Plan, NNAS EP001 Major Incident Plan.	1	Airport Fire	Sept 2011
TH2	Transport hazards Fire or crash of aircraft off airport	Accident over major conurbation causing up to 800 fatalities and up to 300 casualties. Represents worst case scenario involving 2 aircraft or one "Super Jumbo". Injuries range from serious burns to fractures involving long term medical requirements. Also a loss of amenities and the impact on the local economy	Negligible (1)	Catastrophic (5)	MEDIUM	CAA inspection and audit for CAT rating. Airport Fire Service Plans Liaison with LA Fire Service. Multi Agency Plans. Regular Exercising of plans	Liverpool John Lennon Airport full emergency procedures. Major and short exercises to test plans. Emergency liaison committee meetings. Police Force Plan No. 41- Liverpool John Lennon Airport. MFRS SOPs Air, Rescues on or Near Water and Water. MFRS Marine Rescue Team. Aircraft incidents and airport plans, Multi Agency Airport Security Plan. Local Authority Emergency Rest Centre Plans. MOD and NATO flying regulations, MOD post crash management NNAS EP 020 Liverpool JL Airport Response Plan, NNAS EP001 Major Incident Plan.	1	Airport Fire	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH3	Transport hazards Major RTC (Motorway / trunk road)	A major RTC occurring within Merseyside, which would result in a fatality.	Unlikely (3)	Minor (2)	MEDIUM	Plan in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Merseyside Police- Road traffic campaigns throughout the year to raise awareness of issues such as dangerous driving / drink driving etc. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 35 – Chemet, 27 – Hazardous Substances & Dangerous Chemicals in Transit, 39 – Transportation of Explosives, 53 – Mersey Tunnels Plan Closure. Highways Agency – Traffic Officer Service at Regional Control Centre & Incident Support Units, Contingency Plans, VMS & Portable VMS, Emergency Network Diversion Routes Police SOPs in place and reviewed regularly	3	Merseyside Police	Sept 2011
TH4	Transport hazards RTC involving release of hazmats	Up to 10 fatalities, small number of casualties, short term disruption to transport network / commerce	Unlikely (3)	Moderate (3)	HIGH	Multi agency plans, decontamination plan / systems means for informing local communities in the case of off site effects	MERCHEM Plan (Multi -Agency), Merseyside Emergency Response Manual (Multi-Agency). MFRS SOPs Mass Decontamination and Road. MFRS DIM Vehicle. Local Authority Emergency Rest Centre Plans. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 10 – Chemet, 27 – Hazardous Substances and Dangerous Chemicals in Transit . Highways Agency – Standard Incident Response, VMS & Portable VMS, Contingency Plans, Traffic Officer Service at Regional Control Centre & Incident Support Units.	4	Fire and Rescue Service	March 2010
		Up to 50 fatalities and 500 casualties with major disruption to the transport network	Negligible (1)	Catastrophic (5)	MEDIUM					

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH5	Transport hazards Rail crash – surface railway	Up to 30 fatalities and up to 100 casualties (fractures and internal injuries – burns less likely). Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	Negligible (1)	Significant (4)	MEDIUM	Licence requirement for operators. Safety case to be agreed by HSE before licence granted. Multi agency response plans. Cat 1 and 2 responder plans.	All TOC's /FOC's /Network Rail are required to have a 'Safety Case' agreed with the HSE before a licence to operate is granted. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 10 – Railway Plan for County of Merseyside. MFRS SOPs Rail and USAR NWAS EP001 Major Incident Plan. BTP Force Major Incident Manual.	2	Transport Police	Sept 2010
TH6	Transport hazards Rail crash – sub-surface railway	Up to 30 fatalities and up to 100 casualties (fractures and internal injuries – burns less likely). Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	Negligible (1)	Significant (4)	MEDIUM	As above	As above	2	Transport Police	Sept 2010
TH7	Transport hazards Rail crash involving release of hazardous materials	Up to 30 fatalities and up to 100 casualties (fractures and internal injuries – burns less likely). Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	Negligible (1)	Significant (4)	MEDIUM	As above	As above	2	Transport Police	Sept 2010
TH8	Transport hazards Fire in underground railway tunnel or station	Up to 30 fatalities and up to 100 casualties (fractures and internal injuries – burns less likely). Possible loss of freight. Major disruption to rail line including possible closure of rail tunnel.	Negligible (1)	Significant (4)	MEDIUM	As above	As above	2	Transport Police	Sept 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH9	Transport hazards Major fire in Mersey Tunnel	(Road Tunnel under River Mersey) 2 or more fatalities with up to 50 casualties and people trapped or missing. Evacuation of motorists. Loss of major cross river transport link. Major disruption to regional/local highway network. Disruption to Emergency Services access/mobility. Disruption to local public transport network. Disruption to local economy. Possible loss of communications and utilities. Major costs of rebuilding	Possible (4)	Significant (4)	VERY HIGH	Sec 5 of individual Risk Assessment MTP officers trained in fire & evacuation matters, with response time of < 3 minutes, with vehicles equipped for initial 'first aid' fire fighting Mersey Tunnels Standard Operations Procedures (SOPs) Mersey Tunnels Major Incident Plan Multi Agency response and Major Incident Plans.	Mersey Tunnels Major Incident Plan. Mersey Tunnels Standard Operating Procedures 1A, 1B, 1C, 2A, 2B, 3A, 4A, 9A, & 10A. Updated CCTV System in 2006/07. Variable Message System signs erected in Wirral & Liverpool. Improvements in officers PPE. MFRS SOP Tunnels. NWAS EP001 Major Incident Plan. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 53 – Mersey Tunnel Closure. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Command Units, plan & hard signing to use on M53 if Mersey Tunnels are closed.	4	Tunnel Police	March 2010
TH10	Transport hazards Serious RTC in Mersey tunnel	1 or more fatality with up to 10 casualties and people trapped Evacuation of motorists. Loss of major cross-river transport link. Major disruption to regional/local highway network. Disruption to Emergency Services access/mobility Disruption to local public transport network	Unlikely (3)	Moderate (3)	HIGH	Sec 5 of individual Risk Assessment MTP officers' response time < 3 minutes Mersey Tunnels Standard Operations Procedures (SOPs) Mersey Tunnels Major Incident Plan Multi Agency response and Major Incident Plans.	Mersey Tunnels Major Incident Plan. Mersey Tunnels Standard Operating Procedures 1A, 1B, 1C, 2A, 2B, 3A, 4A, 12A, & 13A. Updated CCTV System in 2006/07. Variable Message System signs erected in Wirral & Liverpool. Improvements in officers PPE. MFRS SOPs Tunnels and Vehicles. NWAS EP001 Major Incident Plan. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 53 – Mersey Tunnel Closure. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units, plan & hard signing to use on M53 if Mersey Tunnels are closed.	4	Tunnel Police	March 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH11	Transport hazards Failure of infrastructure in Mersey Tunnel (including collapse and flooding)	2 or more fatalities with up to 50 casualties and people trapped or missing Evacuation of motorists. Loss of major cross river transport link (temporary or permanent) Major disruption to regional/local highway network. Disruption to Emergency Services access/mobility Disruption to local public transport network. Disruption to local economy Possible loss of communications and utilities. Major costs of rebuilding	Negligible (1)	Catastrophic (5)	MEDIUM	Sec 5 of individual Risk Assessment MTP officers response time < 3 minutes Mersey Tunnels Standard Operations Procedures (SOPs) Mersey Tunnels Major Incident Plan Multi Agency response and Major Incident Plans	Mersey Tunnels Major Incident Plan. Mersey Tunnels Standard Operating Procedures 1A, 1B, 1C, 2A, 2B, 3A, 4A. Updated CCTV System in 2006/07. Variable Message System signs erected in Wirral & Liverpool. Improvements in officers PPE. MFRS SOPs Tunnels and USAR, Service Instruction Tunnel Gas Main. NNAS EP001 Major Incident Plan. Police Force Plan no. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units, plan & hard signing to use on M53 if Mersey Tunnels are closed. Liverpool City Centre Evacuation Zones (2009)	3	Tunnel Police	Sept 2011
TH12	Transport hazards Release of hazardous materials in Mersey Tunnel	1 or more fatality with up to 10 casualties Evacuation of motorists Loss of major cross river transport link Major disruption to regional/local highway network. Disruption to Emergency Services access/mobility Disruption to local public transport network	Unlikely (3)	Moderate (3)	HIGH	Sec 5 of individual Risk Assessment MTP officers response time < 3 minutes Mersey Tunnels Standard Operations Procedures (SOPs) Mersey Tunnels Major Incident Plan Multi Agency Major Incident Plans	Mersey Tunnels Major Incident Plan. Mersey Tunnels Standard Operating Procedures 1A, 1B, 1C, 2A, 2B, 3A, 4A, 14A, 15A, & 20A. Updated CCTV System in 2006/07. Variable Message System signs erected in Wirral & Liverpool. Improvements in officers PPE. MFRS SOPs Tunnels and Vehicles. NNAS EP001 Major Incident Plan. Police Force Plan no. 2 - ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 53 – Mersey Tunnel Closure, 27 – Hazardous Substances & Dangerous Chemicals in Transit. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units, plan & hard signing to use on M53 if Mersey Tunnels are closed. Merseyside Response to Chemical Incidents Plan.	4	Tunnel Police	March 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH13	Fire, flooding, stranding or collision involving a passenger vessel on or close to UK waters or on inland waterways, leading to the ship's evacuation (HL8)	Up to 50 fatalities and up to 300 casualties.	Rare (2)	Catastrophic (5)	HIGH	Maritime and Coastguard Agency's Major Incident Plans, in conjunction with those of other Category 1 Responders and any Category 2 Response Plans. Maritime and Coastguard Agency and Fire & Rescue Services' Maritime Incident Response Group	International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 16 – Shore Based Response to a Maritime Incident.	3	Maritime Coastguard Agency / DfT	Sept 2011
TH14	Transport Hazards Local accident involving an aircraft crash off shore	Light aircraft up to 10 fatalities/casualties Medium – Large aircraft 10+ to 200+ fatalities/casualties with environmental impact Cargo aircraft up to 10 fatalities/casualties with environmental impact	Negligible (1) Negligible (1) Negligible (1)	Minor (2) Significant (4) Moderate (3)	LOW MEDIUM MEDIUM	Marine Rescue for river response along with RNLI. Maritime and Coastguard Agency's Major Incident Plans in conjunction with all Category 1 response plans.	Local Authority River Mersey Aircraft Rescue Plan (multi agency). Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 41 – Liverpool John Lennon Airport, 42 – Aircraft Incidents Guidance to Police & Emergency Services, 44 – River Mersey Aircraft Rescue Plan.	1 1 1	Maritime Coastguard Agency	March 2010
TH15	Fire, flooding, stranding or collision involving a passenger vessel on or close to UK waters leading to the ship's evacuation or partial evacuation at sea	Up to 250 fatalities and 500 casualties.	Negligible (1)	Catastrophic (5)	HIGH	Maritime and Coastguard Agency's Major Incident Plans, in conjunction with those of other Category 1 Responders and any Category 2 Response Plans. Maritime and Coastguard Agency and Fire & Rescue Services' Maritime Incident Response Group	International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters.	2	Maritime Coastguard Agency / DfT	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH16	Release of significant quantities of hazardous chemicals/materials as a result of major shipping accident (HL37)	Up to 50 fatalities and up to 250 casualties. Significant environmental / ecological damage.	Negligible (1)	Catastrophic (5)	HIGH	<p>Maritime and Coastguard Agency and other authorities' contingency planning, including the National Contingency Plan for Marine Pollution from Ships and Offshore Installations backing up local and regional response and support plans.</p> <p>Maritime and Coastguard Agency's Major Incident Plans, in conjunction with those of other Category 1 Responders and any Category 2 Response Plans.</p> <p>Maritime and Coastguard Agency and Fire and Rescue Services' Maritime Incident Response Group</p>	<p>International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators.</p> <p>Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters.</p> <p>International Ship and Port Security Code; security service involvement.</p>	2	Maritime Coastguard Agency / DfT	Sept 2011
TH18	Transport hazards involving radiological or nuclear materials	Up to 5 fatalities and up to 100 people contaminated, contamination of local area	Negligible (1)	Significant (4)	MEDIUM	Multi agency plans, decontamination plan / systems Emergency Rest Centre Plans	<p>Merseyside Emergency Response Manual. MFRS SOPs Major Incidents and Mass Decontamination. MFRS DIM Vehicle. NAIR Major Incident Plan. Nwas EP001 Major Incident Plan. Decontamination Procedures. NARO. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units, Contingency Plan.</p>	1	Fire and Rescue Service	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH19	Rapid Accidental sinking of a passenger vessel in or close to UK waters (H42)	500 fatalities and 1000 casualties, potentially with blockage of major sea-lane or port.	Negligible (1)	Catastrophic (5)	HIGH	Maritime and Coastguard Agency's Major Incident Plans, in conjunction with those of other Category 1 Responders and any Category 2 Response Plans. Maritime and Coastguard Agency and Fire & Rescue Services' Maritime Incident Response Group	International and national regulation of shipping aimed at preventing accidents by the safe construction, equipment and operation of ships by competent crews and shipping operators. Regulations enforced by Flag States and subject to rigorous Port State Control checks, co-ordinated in European waters.	2	Maritime Coastguard Agency / DfT	Sept 2011
TH20	Transport hazards Damage to motorway infrastructure	Motorway infrastructure will be damaged resulting in fatalities, injury and damage to transportation links.	Negligible (1)	Minor (2)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan No. 01 - Force Mobilization Plans, 07 – Emergency Equipment and Trailer Information. MFRS SOP Road. Highways Agency – Contingency Plans, VMS and portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units, Emergency Network Diversion Routes	1	Highways Agency	Sept 2011
TH21	Transport hazards Local accident involving transport of fuel or explosives	Up to 30 fatalities and up to 20 casualties within the vicinity of accident / explosion	Rare (2)	Moderate (3)	MEDIUM	Multi Agency major incident plans. Plans for dealing with explosives incidents. Hazmat procedures.	Merseyside Response to Chemical Incidents Plan (MERCHEM). Merseyside Emergency Response Manual. MFRS Individual site-specific plans. Local Authority Emergency Rest Centre Plans. Police Force Plan No. 2 – ACPO Emergency Procedure Manual, 3 – Procedures for Emergencies, 27 – Hazardous Substances and Dangerous Chemicals in Transit, 39 – Transportation of Explosives in Excess of 5 Tonnes. Joint training / enforcement initiative between Police, F&RS, Trading Standards and Environmental Health. Highways Agency – VMS & portable VMS, Traffic Officer Service at Regional Control Centre & Incident Support Units, Contingency Plan, Emergency Network Diversion Routes.	1	Fire and Rescue Service	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TH22	Transport hazards Maritime accident or deliberate blockade of access to key port, estuary or maritime route	Vessel grounding / sinking in main sea channels to port. Fatalities / injuries minor. Loss of port is likely to have initial wider impact, but will quickly reduce as shippers seek alternative ports or methods of shipping. Economic impact on local dependent businesses	Negligible (1)	Insignificant (1)	LOW	Maritime salvage SOP's, navigational aides, Maritime Policing capability.	Port/Harbour Authority, MCA, Environment Agency, Department for Transport. Pilotage, marked channels, Vessel Tracking System (VTS). Maritime Salvage SOP (Port/Harbour Authority) Harbour Authority Peel Ports - Marine Safety Assessment Register Maritime policing capability – vessel CONSORTIUM	1	Port Police	Sept 2011
		Blockade of lock to impounded system Vessels unable to enter or leave system. Fatalities / injuries minor. Loss of port is likely to have initial wider impact, but will quickly reduce as shippers seek alternative ports or methods of shipping. Economic impact on local dependent businesses	Negligible (1)	Insignificant (1)	LOW					

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
HH1	Human Health Outbreak of communicable disease – pandemic e.g. SARS or influenza	Serious epidemic of much greater severity than the usual seasonal flu. GP consultations for new episodes >400 per 100K population at peak (200 per week in average year)	Probable (5)	Catastrophic (5)	VERY HIGH	Vaccination development and production. Vaccination capability. Business continuity plans.	Annual seasonal Flu Vaccination campaign aimed at 90% uptake in people aged 65yrs and over plus people of all ages in key at risk groups such as asthmatics, diabetics and healthcare workers. Antiviral treatments as per national guidance. Business Continuity Plans includes key worker absence planning. National Flu Pandemic Plan, international, national and local surveillance systems. National stockpile of antiviral drugs (Tamiflu), Regional and local Pandemic Business Continuity plans. Anti viral stockpile. Merseyside Flu Pandemic and Human Infectious Diseases Management Plan. Merseyside Mass Fatalities Plan. HPA - Increased capacities for vaccination. PCT Escalation Policy H1N1 Vaccine produced and available for vaccination programme from mid October 2009.	5	Liverpool PCT, HPA	Sept 2010
		Influenza affecting 25% of population. Mortality assumed 1-3% of those infected. Pandemic, likely in 2 waves each lasting twelve weeks. All ages affected. Planning assumptions for Cheshire and Merseyside (pop. 2.38 million) based on national model are 500,000 clinical cases, 100,000 GP consultations. Minimum of 3,000 requiring hospitalisation and 2,000 excess deaths. (2009 Flu Pandemic has not been as severe as expected & mortality rate has differed from the above assumption. The mortality rate has actually been 0.1%)	Probable (5)	Catastrophic (5)	VERY HIGH					
HH2	Human Health Outbreak of communicable disease	Rabies, One case of UK-derived rabies (wildlife affected)	Rare (2)	Moderate (3)	MEDIUM	Surveillance, treatment and control. Public information systems. Forensic information collection. Major outbreak plan	Water filtration, animal controls, regulations on farm visits. Environmental health regulations, health promotion advice. Major outbreak plan. HSE and LA regulations and checks Memorandum on Rabies DoH 2000. Local Authority Rabies Plan. PCT Escalation Policy	3	Liverpool PCT, HPA	Sept 2011
		Outbreak of Ecoli 0157 affecting 100 people with 5 deaths	Possible (4)	Moderate (3)	HIGH					

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
HH3	Human Health Legionella outbreak	Localised outbreak of a disease which could cause up to 10 fatalities and up to 50 casualties	Unlikely (3)	Moderate (3)	HIGH	Surveillance, treatment and control. Public information systems. Forensic information collection. Major outbreak plan	Water filtration, animal controls, regulations on farm visits. Environmental health regulations, health promotion advice. Major outbreak plan. HSE and LA regulations and check	4	Liverpool PCT, HPA	March 2010
HH4	Human Health Major outbreak of food poisoning	CD waterborne, Cryptosporidiosis Outbreak affecting 100 people with 15 deaths	Unlikely (3)	Moderate (3)	HIGH	Surveillance, treatment and control. Public information systems. Forensic information collection. Major outbreak plan	Water filtration, animal controls, regulations on farm visits. Environmental health regulations, health promotion advice. Major outbreak plan	4	Liverpool PCT, HPA	March 2010
		CD food borne Salmonella Outbreak affecting 100 people with 5 deaths	Possible (4)	Moderate (3)	HIGH					
PH1	Plant Health Plant disease	Threat to semi rural economy and food chain. Environmental damage to conservation areas in the Merseyside Area (615.9 sq.km).	Negligible (1)	Minor (2)	LOW	Local Authority Arboreal officers and ranger staff liase with Environment Agency & DEFRA	DEFRA - Forestry Commission, Forest Research, Disease Diagnostics section	1	Local Authorities	Sept 2011
AH1	Outbreak of non-zoonotic communicable animal disease *Zoonotic animal diseases dealt with in assessment HH2	Non-zoonoses animal diseases, e.g., foot & mouth	Unlikely (3)	Moderate (3)	HIGH	Local authority plans for closing of footpaths, informing community, liaison with standing authorities and decontamination procedures (EHO's)	DEFRA New regional multi agency Animal Diseases group proposed by RRT, led by DEFRA and including LA EHO and EPO. DEFRA National contingency plan. NW RRT Exotic Animal Diseases Plan in place which has adopted national DEFRA guidance for Exotic Animal Diseases	4	Local Authorities	Sept 2010

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
PD1	Public disorder Sport stadium disorder	Public events disorder resulting in injuries.	Possible (4)	Insignificant (1)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan No. 01 - Force Mobilization Plans, 03 – Procedures for Emergencies, 54 – Football Manual Everton FC. 55 – Football manual Liverpool FC. 56 – Football Manual Tranmere FC. 57 – St Helens RLFC. 58 – Haydock Racecourse. Police Plans are developed prior to each event. MFRS SOPs Venues and Civil Disturbances. NWS Plans for Anfield and Goodison. Generic Plans for St Helens and Tranmere. LAs Licence Conditions. Clubs have individual Emergency Manuals. MRF Sub Group in place to develop future plans.	1	Merseyside Police	Sept 2011
PD2	Public disorder Public events disorder	Public events disorder resulting in damage to property and injuries.	Possible (4)	Insignificant (1)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan No. 01 - Force Mobilization Plans, 03 – Procedures for Emergencies. Police Plans are developed prior to each event. MFRS SOPs Venues and Civil Disturbances. Local Authority Event & Contingency Plans.	1	Merseyside Police	Sept 2011
PD3	Public disorder School related incidents	School related incidents involving public disorder which result in an injury.	Negligible (1)	Insignificant (1)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan Number 01 - Force Mobilization Plans, 03 - Procedures for Emergencies. MFRS SOPs Civil Disturbances. 3 LAs have Schools Emergency Plans. 5 LAs have Educational Psychologists. 5 LAs have Crime & Disorder Partnerships (CDPs). Knowsley has Surestart Emergency Response Teams.	1	Local Authorities	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
PD4	Public disorder Public protests	Large scale public protests involving tens of thousands of highly motivated protestors, including a hard core of 2,000 protestors, causing physical damage and requiring a nationally coordinated police response.	Negligible (1)	Minor (2)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan Number 01 - Force Mobilization Plans, 03 - Procedures for Emergencies. Police Plans are developed prior to each event. MFRS SOPs Civil Disturbances.	1	Merseyside Police	Sept 2011
PD5	Public disorder Prison riots	Prison riots taking place which would result in damage to property and/or either fatalities or injuries.	Negligible (1)	Minor (2)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan Number 01 - Force Mobilization Plans, 47 – HMP Liverpool, 48 – HMP Altcourse, HMP Kennet HM Prison Service – Contingency Plans. MFRS SOPs Civil Disturbances and Secure Accommodation. NWS Procedures for HMP Liverpool, Altcourse & Kennet.	1	Merseyside Police	Sept 2011
PD6	Public disorder Secure hospitals	Disorder occurring resulting in damage to property and/or either fatalities or injuries.	Negligible (1)	Minor (2)	LOW	Plans in place to deal with all eventualities enhanced by an appropriate training and exercising regime	Police Force Plan Number 01 - Force Mobilization Plans, 03 – Procedures for Emergencies. Police Plans are developed prior to each event.	1	Liverpool PCT / NHS North West	Sept 2011
IC1	International crises Humanitarian crisis overseas	Loss of key staff (leave to work in crisis area)	Possible (3)	Moderate (3)	HIGH	Business continuity plans, Full-staffing levels for key areas. Voluntary networks, Aid teams available on call	Voluntary networks, Aid teams available on call.	3	Liverpool PCT	Sept 2011
IC2	International crises War overseas	Loss of key staff (leave to work in crisis area)	Negligible (1)	Minor (2)	LOW	Business continuity plans Full-staffing levels for key areas. Voluntary networks, Aid teams available on call	Voluntary networks, Aid teams available on call.	1	Liverpool PCT	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TF1	Industrial Technical Failure Technical failure of upstream (offshore) oil / gas network	All or part of offshore facility destroyed. 6 months to restore. 5-30% loss of gas supply, lower impact on oil supply	Unlikely (2)	Significant (4)	HIGH	Business continuity plans / back up systems	NWAS EP001 Major Incident Plan NHS Ambulance Services National MOU Concerning the Provision of Mutual Aid. Local Authority Emergency Rest Centre Plans. MFRS Communications back up systems, Standard operating procedures, contingency plans. Scottish Power ESEC Rota Disconnection Plans.	5	Fire and Rescue Service	Sept 2010
TF2	Industrial Technical Failure Accidental failure at water treatment works	Between 10-50,000 people could be without water for up to 3 days	Negligible (1)	Moderate (3)	MEDIUM	Business continuity plans, Water utility service water supply plans	MFRS SOP Environmental and Service Instruction Significant Water Loss. MFRS High Volume Pump and Hose Laying Equipment for transfer of large quantities of water. DEFRA - Security and Emergency Measures Direction: Plans for the Provision of Essential Water & Sewerage Services at all Times 2003 North West Water / NHS Executive 'Business Continuity Planning Guidelines for Maintenance of Water & Sewerage Services to Hospitals' . United Utilities – Alarm system linked to control room with standby arrangements, critical equipment such as duty/standby pumps, Site Specific procedures, Incident Management Procedure CO/100 /01 & Rezoning Procedures for water networks.	3	United Utilities	Sept 2011
TF3	Industrial Technical Failure No notice failure of public telephony provider	Loss of service for up to 100,000 people for up to 5 hours	Unlikely (3)	Minor (2)	MEDIUM	Business continuity plans,	Communications back up systems. MFRS SOP Mobilising & Communication. Police Force Plan no. 11 – Loss of British Telecom Exchange. Satellite phones held as contingency by all five Local Authorities. United Utilities – Business Continuity Plans. MRF Telecoms Sub Group Plans.	3	Fire and Rescue Service	Sept 2011

Risk ref.	Hazard or threat sub category	Outcome description	Likelihood	Impact	Risk rating	Capability	Controls currently in place	Risk priority	Lead responsibility	Review Date
TF4	Industrial Technical Failure Technical failure of electricity network	Total shutdown of electricity supply over whole of mainland UK occurring during working hours and lasting for 24 hours	Rare (2)	Moderate (3)	MEDIUM	Business continuity plans / back up systems. Alternative emergency power sources	Communications back up systems. Standard operating procedures / contingency plans Business continuity plans. Scottish Power ESEC Rota Disconnection Plans and Blackstart Plans. Highways Agency – Regional Control Centre Business Continuity Plan, generators, fuel stocks, portable VMS.	4	Scottish Power	March 2010
		Total shutdown of electricity supply over an entire region occurring during working hours and lasting for 24 hours	Unlikely (3)	Moderate (3)	HIGH					
TF5	Industrial Technical Failure Telecom infrastructure - human error	Loss of telecommunications across a UK region for 5 days	Unlikely (3)	Moderate (3)	HIGH	Business continuity plans / back up systems	Communications back up systems. Standard operating procedures / contingency plans. Police Force Plan no. 11 Loss of BT Exchange. Satellite phones held as contingency by all five Local Authorities. United Utilities – Business Continuity Plans. Highways Agency – Contingency Plans, Business Continuity Plan. MRF Telecoms Sub Group Plans	3	Fire and Rescue Service	Sept 2011

Appendix A Category 1 Responders: General

In relation to England-

- (a) a county council,
- (b) a district council,
- (c) a London borough council,
- (d) the Common Council of the City of London, and
- (e) the Council of the Isles of Scilly.

Emergency services

- (1) A chief officer of police within the meaning of section 101(1) of the Police Act 1996 (c. 16).
- (2) The Chief Constable of the Police Service of Northern Ireland.
- (3) The Chief Constable of the British Transport Police Force.

A fire and rescue authority within the meaning of section 1 of the Fire and Rescue Services Act 2004 (c. 21).

Health

A National Health Service trust established under section 5 of the National Health Service and Community Care Act 1990 (c. 19) if, and in so far as, it has the function of providing-

- (a) ambulance services,
- (b) hospital accommodation and services in relation to accidents and emergencies, or
- (c) services in relation to public health in Wales.

An NHS foundation trust (within the meaning of section 1 of the Health and Social Care (Community Health and Standards) Act 2003 (c. 43)) if, and in so far as, it has the function of providing hospital accommodation and services in relation to accidents and emergencies.

A Primary Care Trust established under section 16A of the National Health Service Act 1977 (c. 49).

A Local Health Board established under section 16BA of the National Health Service Act 1977.

- (1) The Health Protection Agency established by section 1 of the Health Protection Agency Act 2004 (c. 17).
- (2) Until its dissolution consequent upon the coming into force of section 1 of that Act, the Special Health Authority established under section 11 of the National Health Service Act 1977 and known as the Health Protection Agency.

A port health authority constituted under section 2(4) of the Public Health (Control of Disease) Act 1984 (c. 22).

Miscellaneous

The Environment Agency.

The Secretary of State, in so far as his functions include responding to maritime and coastal emergencies (excluding the investigation of accidents).

Appendix B Category 2 Responders: General

Utilities

- (1) A person holding a licence of a kind specified in sub-paragraph (2) and granted under section 6 of the Electricity Act 1989 (c. 29).
- (2) Those licences are-
 - (a) a transmission licence,
 - (b) a distribution licence, and
 - (c) an interconnector licence.
- (3) Expressions used in this paragraph and in the Electricity Act 1989 shall have the same meaning in this paragraph as in that Act.
 - (1) A person holding a licence of a kind specified in sub-paragraph (2).
 - (2) Those licences are-
 - (a) a licence under section 7 of the Gas Act 1986 (c. 44), and
 - (b) a licence under section 7ZA of that Act.

A water undertaker or sewerage undertaker appointed under section 6 of the Water Industry Act 1991 (c. 56).

- (1) A person who provides a public electronic communications network which makes telephone services available (whether for spoken communication or for the transmission of data).
- (2) In sub-paragraph (1)-
 - (a) the reference to provision of a network shall be construed in accordance with section 32(4)(a) and (b) of the Communications Act 2003 (c. 21), and
 - (b) "public electronic communications network" shall have the meaning given by sections 32(1) and 151(1) of that Act.

Transport

A person who holds a licence under section 8 of the Railways Act 1993 (c. 43) (operation of railway assets) in so far as the licence relates to activity in Great Britain.

A person who provides services in connection with railways in Great Britain-

- (a) without holding a licence under section 8 of that Act, but
 - (b) in reliance on Council Directive 95/18/EC on the licensing of railway undertakings.
- (1) Transport for London.
 - (2) London Underground Limited (being a subsidiary of Transport for London).

An airport operator, within the meaning of section 82(1) of the Airports Act 1986 (c. 31), in Great Britain.

A harbour authority, within the meaning of section 46(1) of the Aviation and Maritime Security Act 1990 (c. 31), in Great Britain.

The Secretary of State, in so far as his functions relate to matters for which he is responsible by virtue of section 1 of the Highways Act 1980 (c. 66) (highway authorities).

Health and safety

The Health and Safety Executive.

Appendix C Risk Rating Matrix

